



Tradewind VA



Flight Briefing Package

TCC412A LHBP-KMEM

05-Aug-2019 #1

RELEASE #1

LISZT FERENC INTL
(HUNGARY)

-

MEMPHIS INTL
(UNITED STATES)

PREPARED BY CHRISTIAN BREUER (TCA2984)

CHRISTIAN@TCA-CHARTER.DE

05 AUG 0621 UTC

Fuel Planning (kg)	EU-OPS	Fuel	Time
TRIP		67.802	10:00
CONT 5%		3.390	00:34
HOLD	KMEM	2.003	00:20
ALTN	KBNA	4.010	00:32
FINAL RESV		3.001	00:30
ADD FUEL		1.193	00:12
MIN T/O		81.399	12:08
EXTRA		1.502	00:15
TAXI		884	00:17
RELEASE	LHBP	83.785	12:40
ARR FUEL	KMEM	14.163	02:05

Load Planning (kg)	PJTGC	Plan	Limit
Empty Weight		156.146	
Payload	265+0 Pax	24.910	
Zero Fuel Weight		181.056	209.106
Fuel		83.785	162.613
Ramp Weight		264.841	348.359
Take-Off Weight LHBP	Limit	263.957	280.502
Landing Weight KMEM		196.155	223.167
Underload		16.545	Lim TOW

Cost Planning			
Flight Time	10:00	\$	55.710
Fuel	69.622	\$	103.399
Total		\$	159.109
Per Pax		\$	600
Per 5.000 kg Payload		\$	31.937

TRADEWIND CARIBBEAN FLIGHTPLAN - IFR TCC412A PJTGC LHBP-KMEM

 ALL WEIGHTS IN KILOGRAMS (KG) STD 05AUG/0745Z

OPF 1 - PREPARED 05AUG/0621Z BY CHRISTIAN BREUER (TCA2984) CHRISTIAN@TCA-CHARTER.DE

TR412A/TCC412A PJTGC/B777-2LR GE SEL/SALH ROUTE: LHBPKMEM10

DEP: LHBP/BUD 31R ELEV 496 FT COST INDEX: 250 TTL G/C DIST: 4575 NM
 ARR: KMEM/MEM 18L ELEV 341 FT INIT ALT: FL340 TTL F/P DIST: 4723 NM
 FUEL BIAS: 100.5% TTL AIR DIST: 4814 NM
 AVG WIND CMP: HD009 KT

ALT: KBNA/BNA 31 ELEV 599 FT 182 NM

CONFIG	DOW	PAX	CARGO	TOTAL	ULOAD LIM	ZFW	TOW	LDW
STANDARD	156146	265	0	24910	16545 TOW	MAX 209106	280502	223167
						PLN 181056	263957	196155
						ACT .....	.....	.....

 ** TAKE-OFF DATA LHBP 31R **

COND: 263957 KG // RWY DRY // +18°C Q1016 250/07 // LMT: STRUCT
 CONFIG: FLAPS 5 // D-T01 +39C // A/I OFF/AUTO // A/C ON
 SPEEDS: V1=154 VR=157 V2=162
 ENG OUT: CLIMB STRAIGHT AHEAD TO 2000FT. TURN RIGHT TO TPS (D115.90) CLIMBING
 TO 5000FT AND HOLD (160/L).

	FUEL	CORR	ENDUR	
TRIP	67802	.....	10:00	
CONT 5%	3390	.....	00:34	
ALTN KBNA	4010	.....	00:32	
FINAL RESV	3001	.....	00:30	
HOLD	2003	.....	00:20	
ADD FUEL	1193	.....	00:12	
MIN T/O	81399	.....	12:08	.....
EXTRA	1502	.....	00:15	CAPTAINS SIGNATURE (....)
TAXI	884	.....	00:17	
RELEASE	83785	.....	12:40	I ACCEPT THIS OPF AND I AM FAMILIAR
ARR FUEL	14163	.....	02:05	WITH THE PLANNED ROUTE AND AERODROMES

FUEL TANK CAP 162613 KG / MAX EXTRA FUEL 18047 KG LIM BY ENRTE
 TRIP CORR FOR 5000 KG TOW INCR: +1167 KG / 5000 KG TOW DECR: -967 KG
 2000 FT LOWER: +748 KG / EET 09:54 CLB: 250/310/84 DES: 84/320/250

LHBP	STD 07:45Z/09:45L	ETD 07:45Z	ACT OFBL	EST T/O 08:02Z	ACT T/O
KMEM	STA 18:30Z/13:30L	ETA 18:20Z	ACT ONBL	EST LDG 18:02Z	ACT LDG
	SKD 10:45	PLN 10:35	TTL BLCK	EST FLT 10:00	TTL FLT

***** 180 MIN ETOPS CRITICAL FUEL SUMMARY *****

NON-ICING CONDITIONS - INCLUDING FUEL FOR ONE MISSED APPROACH

ETOPS ENTRY (EINN)	29 NM BEFORE 5620N	N55 51.3 W019 11.4	EET 03:30
ETOPS EXIT (CYQX)	5 NM BEFORE 5550N	N55 02.2 W049 51.4	EET 05:37

ETOPS ALTNS WX/NOTAM SUITABILITY PERIOD

EINN (12:27-14:57)
 CYQX (14:29-14:57)

ONE ENGINE OUT DECOMP ETP 1 FOR EINN/CYQX N57 05.7 W033 50.4 EET 04:30
 84/320/250 DESC TO FL100 CRUISE AT 1E0320 201 NM BEFORE 5740N
 PLN FUEL OVER ETP 47989 ETP FUEL REQ 20213 DIV TIME 02:24
 ETP TO EINN (N52 42.1 W008 55.5) DIST 895 NM WC TL003 TT 097
 ETP TO CYQX (N48 56.2 W054 34.1) DIST 890 NM WC 0 TT 245

ALL ENGINE DECOMP ETP 1 FOR EINN/CYQX N57 05.7 W033 50.4 EET 04:30
 84/320/250 DESC TO FL100 CRUISE AT AE320 201 NM BEFORE 5740N
 PLN FUEL OVER ETP 47989 ETP FUEL REQ 19283 DIV TIME 02:24
 ETP TO EINN (N52 42.1 W008 55.5) DIST 895 NM WC TL003 TT 097
 ETP TO CYQX (N48 56.2 W054 34.1) DIST 890 NM WC 0 TT 245

ONE ENGINE OUT ETP 1 FOR EINN/CYQX N57 05.8 W034 09.7 EET 04:32
 1E084/320 DESC TO FL273 CRUISE AT 1E0320 191 NM BEFORE 5740N
 PLN FUEL OVER ETP 47847 ETP FUEL REQ 19192 DIV TIME 01:56
 ETP TO EINN (N52 42.1 W008 55.5) DIST 905 NM WC TL008 TT 096
 ETP TO CYQX (N48 56.2 W054 34.1) DIST 881 NM WC HD006 TT 245

ATC ROUTE: N0492F340 BADO4R BADOV DCT MAVOR P41 BABUS L602 VARIK DCT ROBEL
 UL602 KEMAD/N0489F360 UL602 SUPUR UP1 GODOS P1 RODSI P58 FINDO DCT
 AMLAD/M084F360 DCT RESNO/M084F370 NATF 55N050W/M084F380 NATF LOMSI
 N520A YRI/N0492F380 J563 YSC DCT SYR DCT GEE DCT JHW DCT YNG DCT APE
 DCT FLM DCT BWG WLDER8

ALTERNATE PLANNING

ALTN/RWY DIST ALT/FL MSA COMP TIME FUEL DIFF ROUTE
 KBNA/31 182 FL290 045 HD003 00:32 4010 - ELVIS4 EONEE DCT GHM

MOST CRITICAL MORA 8300 FT AT SYR

AWY -FIR	WAYPOINT NAME	MT	ALT ISA	MSA	FREQ WND/SPD	TAS GS	LEG REM	FUEL POSITION	REM / USED	LEG ETO / ATO	ACC
	LHBP/31R		496	046				82.9 / 0.9			
	LISZT FERENC INTL					4723		N4725.4 E01917.6/.....		
BADO4R	DE31R DER31R	308	*CLB	046	P06 288/009		2	82.0 / 1.8	02 00.02		
						4721		N4726.7 E01915.5/.....		
BADO4R	BP640	295	*CLB	046	P05 303/011		4	81.6 / 2.1	01 00.03		
						4717		N4728.7 E01910.4/.....		
BADO4R	BP636	316	*CLB	046	P05 317/018		14	80.7 / 3.1	02 00.05		
						4704		N4739.2 E01857.5/.....		
BADO4R -LZBB	BADOV	341	*CLB	071	P05 317/031		23	79.6 / 4.2	04 00.09		
						4681		N4801.3 E01849.0/.....		
DCT	*TOC	309	FL340	071	P00 315/046	492 446	41 4639	78.2 / 5.6	06 00.15		
								N4829.7 E01803.9/.....		
	LOWW	308	FL340	071	P02 303/051		12	78.0 / 5.8	01 00.16		
								N4838.0 E01750.7/.....		
DCT -LKAA	MAVOR	308	FL340	045	P01 317/050	492 443	17 4611	77.7 / 6.1	02 00.18		
								N4849.3 E01732.3/.....		

P41	BABUS	311	FL340	045	492	13	77.5 / 6.3	02	00.20	
			P01	318/052	442	4597	N4858.8 E01718.1/.....		
L602	BNO BRNO	289	FL340	076	114.45	493	26	77.0 / 6.7	04	00.24
			P01	317/055	442	4571	N4909.0 E01641.6/.....		
L602	ELMEK	290	FL340	044	494	113	75.1 / 8.7	15	00.39	
			P02	301/053	440	4458	N4954.2 E01401.8/.....		
L602	DONAD	281	FL340	072	494	41	74.4 / 9.4	06	00.45	
			P02	293/050	443	4417	N5004.9 E01300.0/.....		
L602	SOPGA	294	FL340	055	493	12	74.2 / 9.6	02	00.47	
			P02	291/050	443	4404	N5010.6 E01243.1/.....		
L602 -EDUU	VARIK	294	FL340	055	494	15	73.9 / 9.9	02	00.49	
			P02	289/050	443	4390	N5017.5 E01222.9/.....		
	EDDP	293	FL340	055		13	73.7 / 10.1	01	00.50	
			P03	286/069		4377	N5023.3 E01204.9/.....		
DCT	ROBEL	293	FL340	055	496	70	72.5 / 11.3	10	01.00	
			P03	289/065	432	4307	N5053.9 E01026.1/.....		
UL602	KEMAD	293	*CLB	052		32	72.0 / 11.8	04	01.04	
			P03	287/069		4275	N5107.4 E00940.5/.....		
UL602 -EDVV	*BDRY	299	FL360	042	489	24	71.4 / 12.3	04	01.08	
			P03	286/071	420	4251	N5120.1 E00907.5/.....		
UL602	HMM HAMM	299	FL360	043	115.65	489	62	70.4 / 13.4	08	01.16
			P03	277/076	417	4189	N5151.4 E00742.5/.....		
UL602	REBGU	293	FL360	037	489	30	69.8 / 14.0	05	01.21	
			P03	273/080	414	4159	N5204.4 E00658.2/.....		
UL602	RELBI	293	FL360	022	489	6	69.7 / 14.1	01	01.22	
			P03	272/080	414	4153	N5207.1 E00648.8/.....		
UL602 -EHAA	RKN REKKEN	294	FL360	022	116.80	489	2	69.7 / 14.1	00	01.22
			P03	272/079	415	4151	N5208.0 E00645.8/.....		
UL602	TENLI	288	FL360	022	489	20	69.3 / 14.5	03	01.25	
			P03	269/079	413	4131	N5214.8 E00615.0/.....		
	EDDL	288	FL360	022		3	69.3 / 14.5	00	01.25	
			P03	265/076		4127	N5215.9 E00610.0/.....		
UL602	FLEVO	288	FL360	024	490	22	68.9 / 14.9	04	01.29	
			P03	266/079	416	4105	N5223.1 E00536.1/.....		
UL602	SPY SPIJKERBOOR	287	FL360	024	113.30	490	29	68.4 / 15.4	04	01.33
			P03	263/078	417	4076	N5232.4 E00451.2/.....		
UL602	BERGI	304	FL360	017	489	22	68.0 / 15.8	03	01.36	
			P04	261/077	428	4054	N5244.9 E00421.5/.....		
	EHAM	298	FL360	017		8	67.8 / 15.9	01	01.37	
			P03	258/075		4046	N5248.9 E00409.8/.....		
UL602	AMGOD	298	FL360	017	490	20	67.5 / 16.3	03	01.40	
			P04	258/076	429	4026	N5258.5 E00341.1/.....		
UL602	SUPUR	298	FL360	014	490	5	67.4 / 16.4	01	01.41	

				P04 258/076 429 4021	N5300.9 E00333.9/.....
UP1	GODOS	340	FL360 014	488 15	67.2 / 16.6	01 01.42
-EGTT				P04 257/071 473 4007	N5315.0 E00325.8/.....
P1	BINBO	340	FL360 014	489 10	67.1 / 16.7	02 01.44
				P04 256/069 475 3997	N5324.1 E00320.5/.....
P1	ROKAN	340	FL360 014	489 17	66.8 / 17.0	02 01.46
				P05 255/064 477 3980	N5339.8 E00311.3/.....
P1	TINDI	005	FL360 014	488 23	66.5 / 17.3	02 01.48
				P05 253/057 507 3958	N5402.2 E00315.5/.....
P1	ROLUM	006	FL360 010	488 16	66.3 / 17.5	02 01.50
				P05 251/051 507 3941	N5418.3 E00318.5/.....
P1	GIGUL	344	FL360 010	489 19	66.0 / 17.8	03 01.53
				P05 247/045 489 3923	N5436.4 E00310.2/.....
P1	RODSI	320	FL360 014	490 15	65.8 / 18.0	02 01.55
				P05 244/041 474 3908	N5447.9 E00253.6/.....
P58	*BDRY	294	FL360 014	397 29	65.3 / 18.5	03 01.58
-EGPX				P06 237/035 375 3878	N5500.0 E00207.5/.....
	EGCC	294	FL360 013	18	65.1 / 18.7	03 02.01
				P06 245/052 3861	N5507.2 E00139.3/.....
P58	GIVEM	294	FL360 013	491 52	64.3 / 19.5	06 02.07
				P07 224/028 477 3808	N5527.9 E00014.9/.....
P58	SUSIS	293	FL360 013	491 22	64.0 / 19.8	03 02.10
				P07 212/024 480 3786	N5536.3 W00021.0/.....
P58	MADAD	293	FL360 028	491 50	63.2 / 20.5	06 02.16
				P08 186/021 496 3736	N5554.8 W00144.0/.....
P58	FINDO	297	FL360 050	492 64	62.3 / 21.4	08 02.24
				P08 173/021 502 3672	N5622.2 W00327.8/.....
	EINN	273	FL360 057	110	60.8 / 23.0	13 02.37
				P09 171/010 3562	N5621.6 W00646.4/.....

----- OCEANIC ENTRY -----

[]	LR NAV ACCUR CHECK	AT	__:_Z	CAPT	_____	STBY	_____	FO	_____
[]	RVSM ALTIMETER CHECK	AT	__:_Z	CAPT	_____	STBY	_____	FO	_____
[]	COMPASS HDG CHECK	AT	__:_Z	CAPT	_____	STBY	_____	FO	_____
[]	HF CHECK	AT	__:_Z	SIGNATURE	(....)	_____	_____	_____	_____

DCT	AMLAD	272	FL360 044	496 108	59.3 / 24.5	13 02.50
-EGGX				P11 133/013 504 3454	N5615.9 W01000.0/.....
DCT	RESNO	253	*CLB 010	186	56.8 / 27.0	22 03.12
				P13 041/010 3268	N5500.0 W01500.0/.....

----- ETOPS ENTRY (EINN) 0029 NM BEFORE 5620N EET 03:30 -----

NATF	5620N	297	FL370 010	491 180	54.3 / 29.5	22 03.34
	56N020W			P07 039/015 497 3088	N5600.0 W02000.0/.....

NATF	5730N	294	FL370	010		489	337	49.7 / 34.1	41	04.15
-CZQX	57N030W				P04 017/006	490	2751	N5700.0 W03000.0/.....	
	*ETP 1	288	FL370	010		489	126	48.0 / 35.8	15	04.30
-EGGX	EINN/CYQX				P04 016/012	491	2625	N5705.7 W03350.4/.....	
NATF	5740N	287	FL370	010		488	202	45.3 / 38.5	25	04.55
-CZQX	57N040W				P03 030/010	494	2424	N5700.0 W04000.0/.....	
----- ETOPS EXIT (CYQX) 0005 NM BEFORE 5550N EET 05:37 -----										
NATF	5550N	267	*CLB	010			357	40.6 / 43.2	43	05.38
	55N050W				P04 130/008		2067	N5500.0 W05000.0/.....	
NATF	LOMSI	268	FL380	038		493	265	37.1 / 46.7	32	06.10
					P08 135/011	496	1802	N5306.0 W05647.0/.....	
N520A	*BDRY	262	FL380	039		497	250	33.9 / 49.8	30	06.40
-CZUL					P12 322/007	497	1553	N5059.5 W06236.6/.....	
	KBGR	257	FL380	044			93	32.8 / 51.0	12	06.52
					P07 309/052		1460	N5008.2 W06438.2/.....	
N520A	YRI	255	FL380	055	113.90	492	243	29.6 / 54.2	30	07.22
	RIVIERE DU LOUP				P05 311/056	479	1217	N4745.4 W06935.3/.....	
J563	YSC	229	FL380	060	113.20	487	173	27.4 / 56.3	21	07.43
	SHERBROOKE				P00 300/048	483	1045	N4519.0 W07147.3/.....	
DCT	*BDRY	252	FL380	067		488	35	27.0 / 56.8	04	07.47
-KZBW					M00 299/042	464	1010	N4459.9 W07229.0/.....	
	CYYZ	251	FL380	083			113	25.5 / 58.3	15	08.02
					P00 268/040		896	N4356.6 W07440.6/.....	
DCT	SYR	249	FL380	062	117.00	489	82	24.4 / 59.4	10	08.12
	SYRACUSE				P01 270/024	469	815	N4309.6 W07612.3/.....	
DCT	*BDRY	267	FL380	047		489	25	24.0 / 59.7	03	08.15
-KZOB					P00 270/024	465	790	N4302.8 W07645.2/.....	
DCT	GEE	266	FL380	049	108.20	489	45	23.4 / 60.3	06	08.21
	GENESE0				P00 273/024	466	745	N4250.1 W07744.0/.....	
DCT	JHW	250	FL380	050	114.70	489	73	22.5 / 61.3	09	08.30
	JAMESTOWN				P01 281/022	471	672	N4211.3 W07907.3/.....	
DCT	YNG	244	FL380	046	109.00	488	87	21.4 / 62.4	11	08.41
	YOUNGSTOWN				P01 306/016	482	585	N4119.9 W08040.5/.....	
	KCVG	241	FL380	037			44	20.8 / 63.0	06	08.47
					P02 309/030		541	N4052.1 W08126.4/.....	
DCT	*BDRY	239	FL380	035		488	26	20.5 / 63.3	03	08.50
-KZID					P02 324/020	488	515	N4035.7 W08153.0/.....	
DCT	APE	239	FL380	035	116.70	489	42	20.0 / 63.8	05	08.55
	APPLETON				P02 332/025	492	473	N4009.1 W08235.3/.....	
DCT	FLM	230	FL380	034	117.00	489	121	18.5 / 65.3	15	09.10
	FALMOUTH				P03 338/034	503	352	N3839.0 W08418.6/.....	
DCT	*BDRY	231	FL380	037		490	119	17.1 / 66.7	14	09.24
-KZME					P04 342/048	509	234	N3714.5 W08604.0/.....	

DCT	BWG	229	FL380	040	117.90	490	26	16.8 / 67.0	03	09.27
	BOWLING GREEN			P04	342/050	511	208	N3655.7 W08626.6/.....	
	KMEM	246	FL380	040			26	16.5 / 67.3	03	09.30
				P03	323/043		181	N3643.1 W08655.3/.....	
WLDER8	*TOD	245	FL380	040		491	54	15.9 / 67.9	07	09.37
				P03	343/055	500	127	N3616.4 W08754.3/.....	
WLDER8	AXXEL	244	*DES	040			24	15.8 / 68.0	03	09.40
				P11	346/041		103	N3604.4 W08820.3/.....	
WLDER8	SPKER	243	*DES	027			41	15.7 / 68.1	05	09.45
				P14	344/015		61	N3543.8 W08904.2/.....	
WLDER8	WLDER	229	*DES	026			15	15.6 / 68.2	03	09.48
				P13	341/010		46	N3533.5 W08917.6/.....	
WLDER8	LTOWN	228	*DES	026			4	15.6 / 68.2	01	09.49
				P12	339/009		42	N3530.7 W08921.1/.....	
WLDER8	KMEM/18L	230	341	026			42	15.1 / 68.7	11	10.00
	MEMPHIS INTL							N3502.9 W08958.4/.....	

WIND INFORMATION - OBS 05/AUG 00:00

(CLIMB)			MAVOR			ELMEK			ROBEL		
FL330	318/048	-49	FL380	316/053	-57	FL380	301/057	-58	FL380	292/068	-58
FL260	318/037	-32	FL360	316/051	-55	FL360	301/055	-55	FL360	291/067	-54
FL200	317/026	-19	FL340	317/050	-51	FL340	301/053	-51	FL340	289/065	-49
FL130	314/018	-6	FL320	315/046	-47	FL320	299/048	-46	FL320	287/057	-45
6000	299/011	+8	FL300	313/042	-41	FL300	296/043	-40	FL300	284/049	-40

HMM			SPY			TINDI			GIVEM		
FL400	278/067	-57	FL400	264/064	-56	FL400	252/044	-51	FL400	232/027	-47
FL380	278/077	-57	FL380	264/074	-56	FL380	252/050	-52	FL380	229/028	-48
FL360	277/077	-53	FL360	264/078	-53	FL360	254/057	-51	FL360	225/029	-49
FL340	276/077	-49	FL340	263/083	-50	FL340	255/065	-51	FL340	220/029	-51
FL320	276/068	-45	FL320	263/073	-45	FL320	253/058	-48	FL320	215/029	-49

FINDO			AMLAD			5620N			5730N		
FL400	197/016	-46	FL400	165/008	-44	FL410	032/008	-47	FL410	025/009	-50
FL380	187/018	-47	FL380	148/010	-44	FL390	039/012	-47	FL390	026/009	-51
FL360	173/021	-48	FL360	134/013	-45	FL370	040/016	-49	FL370	018/006	-52
FL340	163/026	-50	FL340	125/018	-46	FL350	039/020	-52	FL350	345/003	-54
FL320	161/028	-48	FL320	112/024	-47	FL330	039/023	-52	FL330	303/003	-53

5740N			LOMSI			YRI			YSC		
FL410	021/009	-51	FL420	147/005	-47	FL420	305/040	-51	FL420	293/045	-56
FL390	023/010	-52	FL400	145/008	-47	FL400	307/047	-51	FL400	296/047	-57
FL370	030/011	-53	FL380	135/011	-48	FL380	312/057	-51	FL380	300/049	-56
FL350	037/012	-54	FL360	120/019	-51	FL360	318/070	-50	FL360	305/049	-53
FL330	039/013	-53	FL340	114/027	-54	FL340	322/084	-49	FL340	311/049	-49

SYR			JHW			APE			FLM		
FL420	270/028	-57	FL420	276/024	-57	FL420	316/025	-57	FL420	328/031	-57
FL400	270/026	-57	FL400	278/024	-57	FL400	325/026	-56	FL400	334/033	-55
FL380	271/025	-56	FL380	281/023	-56	FL380	333/026	-55	FL380	338/034	-53
FL360	275/022	-52	FL360	287/021	-52	FL360	338/023	-51	FL360	341/032	-50
FL340	281/020	-48	FL340	294/020	-48	FL340	346/020	-47	FL340	344/029	-46

(DESCENT)

FL370	352/061	-50
FL300	359/055	-34
FL220	344/030	-16
15000	345/017	-2
7000	020/003	+12

END FLIGHTPLAN 03329 TCC412A PJTGC LHBP-KMEM 05AUG2019

[ATC FLIGHTPLAN]

(FPL-TCC412A-IS
-B77L/H-SDE1FGHIJ1J5M1RWXY/LB2
-LHBP0745
-N0492F340 BADOV DCT MAVOR P41 BABUS L602 VARIK DCT ROBEL UL602
KEMAD/N0489F360 UL602 SUPUR UP1 GODOS P1 RODSI P58 FINDO DCT
AMLAD/M084F360 DCT RESNO/M084F370 NATF 55N050W/M084F380 NATF
LOMSI N520A YRI/N0492F380 J563 YSC DCT SYR DCT GEE DCT JHW DCT
YNG DCT APE DCT FLM DCT BWG WLDER8
-KMEM1000 KBNA
-PBN/A1B1C1D1L101S2 NAV/RNVD1E2A1 DOF/190805 REG/PJTGC
EET/LZBB0009 LKAA0018 EDUU0049 EDVV0108 EHAA0122 EGT0142
EGPX0158 EGGX0250 RESNO0312 56N020W0334 CZQX0415 57N040W0455
55N050W0538 LOMSI0610 CZUL0640 YRI0722 KZBW0747 KZOB0815
KZID0850 KZME0924
SEL/SALH CODE/484DC5 RVR/75 OPR/TRADEWIND CARIBBEAN
ORGN/TNCCTCAP PER/C
RALT/CYQX EINN
RMK/TCAS
-E/1223)

[PLANNING WEATHER]

ORIGIN: LHBP/BUD (LISZT FERENC INTL, HUNGARY)

UTC +02:00

LHBP 050600Z VRB01KT CAVOK 18/15 Q1016 NOSIG
LHBP 050515Z 0506/0606 VRB03KT CAVOK
BECMG 0508/0510 25007KT
BECMG 0518/0520 19004KT

DESTINATION: KMEM/MEM (MEMPHIS INTL, UNITED STATES)

UTC -05:00

KMEM 050554Z 00000KT 10SM FEW095 23/22 A2997 RMK A02 SLP145 T02330222
10272 20228 403280228 58005
KMEM 050536Z 0506/0612 VRB05KT P6SM FEW010
TEMPO 0510/0512 4SM BR BKN010
FM051200 VRB03KT P6SM BKN012
FM051500 02005KT P6SM SCT040
FM060100 VRB03KT P6SM FEW250

ALTERNATE: KBNA/BNA (NASHVILLE INTL, UNITED STATES)

UTC -05:00

KBNA 050553Z 33003KT 5SM BR FEW150 21/19 A3001 RMK A02 SLP154 T02060194
10239 20206 403060206 58001
KBNA 050520Z 0506/0606 VRB02KT 4SM BR BCFG SCT003
TEMPO 0508/0512 1/2SM FG BKN003
FM051300 03005KT P6SM SCT050

EDTO AIRPORT: CYQX/YQX (GANDER INTL, CANADA)

UTC -02:30

CYQX 050600Z 19006KT 15SM -DZ BKN006 OVC020 17/16 A2978 RMK SF7SC1 SLP085
DENSITY ALT 1100FT
CYQX 050538Z 0506/0606 21010KT 5SM BR OVC007
TEMPO 0506/0510 P6SM NSW OVC010
FM051000 19008KT 4SM -SHRA BR OVC006
TEMPO 0510/0512 6SM BR OVC010
PROB30 0510/0512 2SM TSRA BR BKN008 OVC010CB
FM051200 18007KT P6SM OVC010
FM051600 VRB03KT P6SM -SHRA BKN025
PROB30 0516/0521 2SM TSRA BR BKN020CB
FM052100 11010KT P6SM -SHRA BKN025
PROB30 0521/0524 2SM TSRA BR BKN020CB
FM060000 20006KT 6SM -SHRA BR OVC020
FM060300 24005KT 11/2SM -DZ BR OVC005
PROB30 0603/0606 3/4SM -DZ BR OVC003
RMK NXT FCST BY 051200Z

EDTO AIRPORT: EINN/SNN (SHANNON, IRELAND)

UTC +01:00

EINN 050600Z 17008KT 9999 FEW010 BKN046 14/12 Q1005 NOSIG
EINN 050500Z 0506/0606 20010KT 9999 SCT020
TEMPO 0508/0524 SHRA BKN018CB

ADEQUATE: LOWW/VIE (SCHWECHAT, AUSTRIA)

UTC +02:00

LOWW 050550Z VRB02KT CAVOK 19/12 Q1016 NOSIG
LOWW 050515Z 0506/0612 18003KT CAVOK TX28/0612Z TN18/0506Z
BECMG 0603/0606 30007KT 9999 FEW035 BKN070
TEMPO 0603/0607 -SHRA FEW035 FEW040TCU BKN050

ADEQUATE: EDDP/LEJ (LEIPZIG-HALLE, GERMANY)

UTC +02:00

EDDP 050550Z 12005KT 090V150 9999 FEW030 18/13 Q1013 NOSIG
EDDP 050500Z 0506/0606 15005KT CAVOK
BECMG 0508/0510 21006KT
PROB30 TEMPO 0515/0520 SHRA BKN035CB

ADEQUATE: EDDL/DUS (DUESSELDORF, GERMANY)

UTC +02:00

EDDL 050550Z 17008KT CAVOK 21/15 Q1010 NOSIG
EDDL 050500Z 0506/0612 19007KT CAVOK
BECMG 0508/0511 25011KT
BECMG 0518/0521 23006KT

ADEQUATE: EHAM/AMS (SCHIPHOL, NETHERLANDS)

UTC +02:00

EHAM 050555Z 14005KT CAVOK 19/15 Q1009 BECMG 25012KT
EHAM 050451Z 0506/0612 15005KT CAVOK
BECMG 0506/0508 26012KT FEW014
BECMG 0508/0511 25015G25KT FEW025
PROB30 TEMPO 0514/0516 7000 RA BKN030
BECMG 0518/0521 22007KT CAVOK
BECMG 0606/0609 24012KT SCT020

ADEQUATE: EGCC/MAN (MANCHESTER, UNITED KINGDOM)

UTC +01:00

EGCC 050550Z 20006KT 170V230 9999 4900NE RADZ VCSH SCT011TCU BKN048 16/15
Q1007 RESHRA BECMG 9999 NSW
AMD EGCC 050555Z 0506/0612 22008KT 9999 SCT045
TEMPO 0506/0508 6000 RA
PROB30 TEMPO 0603/0606 7000 RA
PROB30 TEMPO 0606/0612 20015G25KT 7000 -RA

ADEQUATE: KBGR/BGR (BANGOR INTL, UNITED STATES)

UTC -04:00

KBGR 050553Z 23005KT 10SM CLR 13/08 A2992 RMK A02 SLP130 T01280083 10206
20128 56001
KBGR 050520Z 0506/0606 30004KT P6SM SKC
FM051500 29008KT P6SM SKC
FM052300 VRB03KT P6SM SKC

ADEQUATE: CYYZ/YYZ (LESTER B PEARSON INTL, CANADA)

UTC -04:00

CYYZ 050600Z 07008KT 15SM SCT050 19/10 A3000 RMK SC4 SLP159 DENSITY ALT
1100FT

CYYZ 050538Z 0506/0612 05006KT P6SM FEW050

FM051500 16008G18KT P6SM SCT050

FM060400 21008KT P6SM FEW070

FM061000 23008KT P6SM SCT070 BKN200

RMK NXT FCST BY 050900Z

ADEQUATE: KCVG/CVG (CINCINNATI/NORTHERN KY INTL, UNITED STATES)

UTC -04:00

KCVG 050552Z 00000KT 10SM CLR 22/17 A3000 RMK A02 SLP149 T02220167 10294
20206 58000

KCVG 050538Z 0506/0612 00000KT P6SM FEW250

FM051600 28006KT P6SM SCT060

FM060000 27003KT P6SM SCT250

[TRACK MESSAGE]

NORTH ATLANTIC TRACK MESSAGE

(NAT-1/3 TRACKS FLS 320/400 INCLUSIVE
AUG 05/0100Z TO AUG 05/0800Z
PART ONE OF THREE PARTS-

R JOOPY 49/50 50/40 51/30 52/20 LIMRI XETBO
EAST LVLS 320 330 340 350 360 370 380 390 400
WEST LVLS NIL
EUR RTS EAST NIL
NAR N269A N277A-

S MUSAK 4830/50 4930/40 5030/30 5130/20 ADARA LEKVA
EAST LVLS 350 360 370 380 390
WEST LVLS NIL
EUR RTS EAST NIL
NAR N237A N233A-

T NICSO 48/50 49/40 50/30 51/20 DINIM ELSOX
EAST LVLS 320 330 340 350 360 370 380 390 400
WEST LVLS NIL
EUR RTS EAST NIL
NAR N211E N201B-

U OMSAT 4730/50 4830/40 4930/30 5030/20 RODEL EPUNA
EAST LVLS 350 360 370 380 390
WEST LVLS NIL
EUR RTS EAST NIL
NAR N183A N171D-

END OF PART ONE OF THREE PARTS)

(NAT-2/3 TRACKS FLS 320/400 INCLUSIVE
AUG 05/0100Z TO AUG 05/0800Z
PART TWO OF THREE PARTS-

V PORTI 47/50 48/40 49/30 50/20 SOMAX ATSUR
EAST LVLS 320 330 340 350 360 370 380 390 400
WEST LVLS NIL
EUR RTS EAST NIL
NAR N155A N139A-

W SUPRY 46/50 47/40 48/30 49/20 BEDRA NASBA
EAST LVLS 320 330 350 360 380 390 400
WEST LVLS NIL
EUR RTS EAST NIL
NAR N93A N75A-

X RAFIN 45/50 46/40 47/30 48/20 48/15 OMOKO GUNSO
EAST LVLS 320 330 350 360 380 390 400
WEST LVLS NIL
EUR RTS EAST NIL
NAR N59C N45D-

Y DOVEY 42/60 44/50 44/40
EAST LVLS 330 350 370 390
WEST LVLS NIL
EUR RTS EAST NIL
NAR NIL-

END OF PART TWO OF THREE PARTS)

(NAT-3/3 TRACKS FLS 320/400 INCLUSIVE
AUG 05/0100Z TO AUG 05/0800Z
PART THREE OF THREE PARTS-

Z SOORY 43/50 45/40 46/30 47/20 47/15 ETIKI REGHI
EAST LVLS 320 360 380 400
WEST LVLS NIL
EUR RTS EAST NIL
NAR NIL-

REMARKS:

- 1.TMI IS 217 AND OPERATORS ARE REMINDED TO INCLUDE THE NUMBER AS PART OF THE OCEANIC CLEARANCE READ BACK.
- 2.OPERATORS ARE REMINDED THAT ADS-C AND CPDLC ARE MANDATED FOR LEVELS 350-390 IN NAT AIRSPACE.
- 3.PBCS OTS LEVELS 350-390. PBCS TRACKS AS FOLLOWS
TRACK R
TRACK S
TRACK T
TRACK U
TRACK V
END OF PBCS OTS.
- 4.CLEARANCE DELIVERY FREQUENCY ASSIGNMENTS FOR AIRCRAFT OPERATING FROM AVPUT TO TALGO INCLUSIVE:AVPUT TO LIBOR 132.02, MAXAR TO VESMI 134.2, AVUTI TO JANJO 128.7,KODIK TO TUDEP 135.45, UMESI TO JOOPY 135.05, MUSAK TO SUPRY 128.45,RAFIN TO TALGO 119.42.
- 5.80% OF NAVIGATIONAL ERRORS RESULT FROM POOR COCKPIT PROCEDURES ALWAYS CARRY OUT PROPER WAYPOINT PROCEDURES.
- 6.OPERATORS ARE ADVISED THAT VERSION 24 OF THE GANDER DATA LINK OCEANIC CLEARANCE DELIVERY CREW PROCEDURES IS NOW VALID AND AVAILABLE AS NAT OPS BULLETIN 2015-004 ON THE WWW.PARIS.ICAO.INT WEBSITE.
- 7.OPERATORS ARE REMINDED THAT EASTBOUND AIRCRAFT INTENDING TO OPERATE IN THE OTS ARE REQUIRED TO COMPLY WITH NAR FLIGHT PLANNING RULES AS DEFINED IN THE CANADA FLIGHT SUPPLEMENT OR WITH ROUTES AS CONTAINED IN THE DAILY BOSTON ADVISORY.
- 8.FL320 EXPIRES AT 0600Z AT 30W ON TRACKS X AND Z.
- 9.OPERATORS ARE REMINDED TO CHECK NOTAMS 190188 OR A2882/19 FOR FLIGHT PLANNING RESTRICTIONS.-

END OF PART THREE OF THREE PARTS)

(NAT-1/2 TRACKS FLS 310/390 INCLUSIVE
AUG 05/1130Z TO AUG 05/1900Z
PART ONE OF TWO PARTS-

A ERAKA 60/20 62/30 63/40 63/50 KETLA
EAST LVLS NIL
WEST LVLS 310 320 330 350 360 370
EUR RTS WEST NIL
NAR NIL-

B GOMUP 59/20 61/30 62/40 62/50 MAXAR
EAST LVLS NIL
WEST LVLS 310 320 330 350 360 370 380 390
EUR RTS WEST NIL
NAR NIL-

C SUNOT 58/20 59/30 59/40 57/50 HOIST

EAST LVLS NIL
WEST LVLS 310 320 330 340 350 360 370 380 390
EUR RTS WEST NIL
NAR NIL-

D BILTO 5730/20 5830/30 5830/40 5630/50 IRLOK
EAST LVLS NIL
WEST LVLS 350 360 370 380 390
EUR RTS WEST NIL
NAR NIL-

E PIKIL 57/20 58/30 58/40 56/50 JANJO
EAST LVLS NIL
WEST LVLS 310 320 330 340 350 360 370 380 390
EUR RTS WEST NIL
NAR NIL-

F RESNO 56/20 57/30 57/40 55/50 LOMSI
EAST LVLS NIL
WEST LVLS 310 320 330 340 350 360 370 380 390
EUR RTS WEST NIL
NAR NIL-

END OF PART ONE OF TWO PARTS)

(NAT-2/2 TRACKS FLS 310/390 INCLUSIVE
AUG 05/1130Z TO AUG 05/1900Z
PART TWO OF TWO PARTS-

G DOGAL 55/20 56/30 56/40 54/50 NEEKO
EAST LVLS NIL
WEST LVLS 310 320 330 340 350 360 370 380 390
EUR RTS WEST NIL
NAR NIL-

REMARKS.

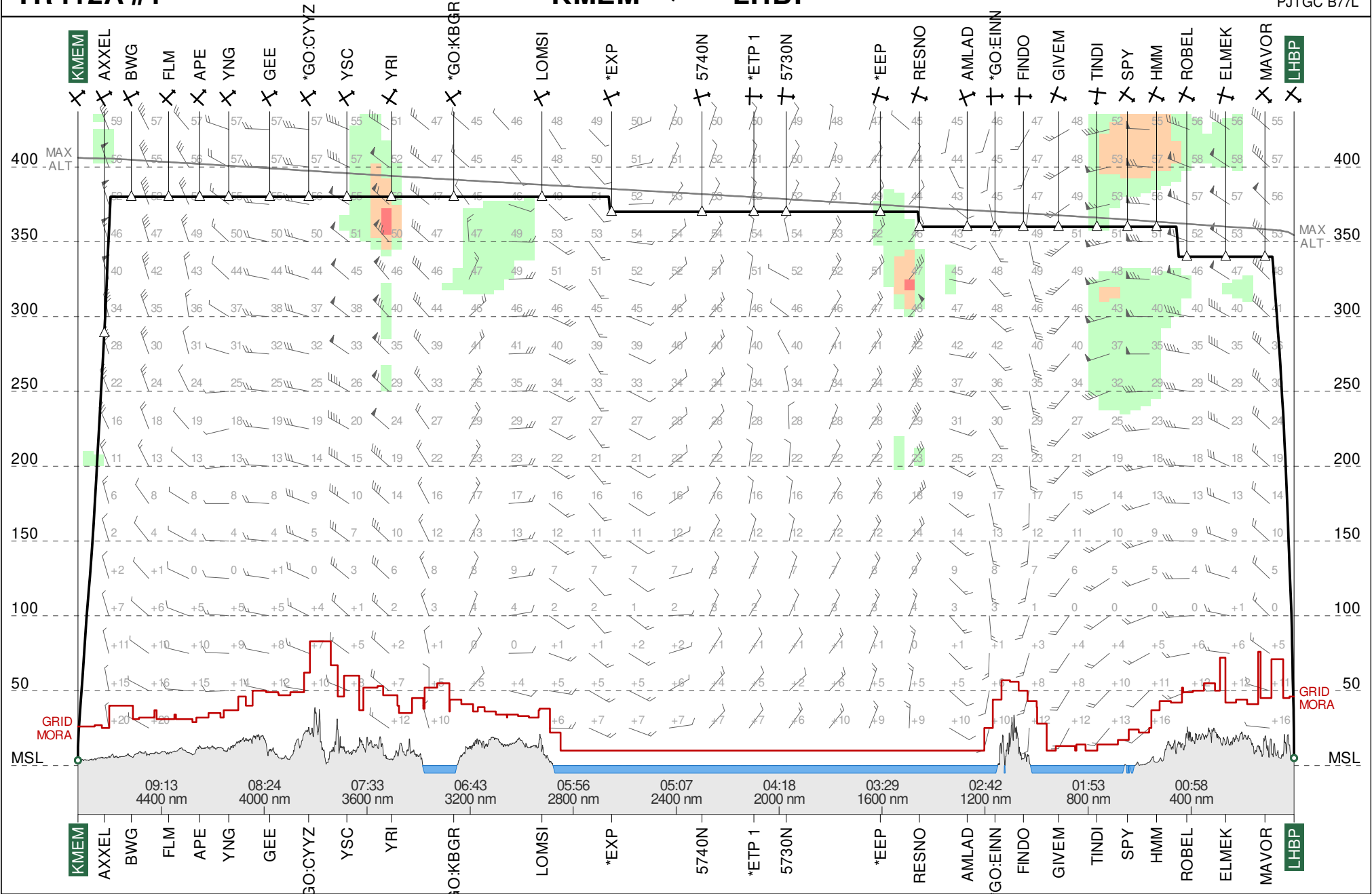
1. TMI IS 217 AND OPERATORS ARE REMINDED TO INCLUDE THE TMI NUMBER AS PART OF THE OCEANIC CLEARANCE READ BACK.
2. FOR WESTBOUND TRACK QUERIES CONTACT EGGX ON +44 01294 655141.
3. ALL ADSC CPDLC EQUIPPED FLIGHTS NOT LOGGED ON TO A DOMESTIC ATSU PRIOR TO ENTERING THE SHANWICK OCA MUST INITIATE A FANS LOGON TO EGGX BETWEEN 10 AND 25 MINUTES PRIOR TO OCA ENTRY. FAILURE TO DO SO MAY RESULT IN A LATE RE-CLEARANCE.
4. OPERATORS ARE REMINDED THAT ADS-C AND CPDLC IS MANDATED FOR LEVELS 350-390 IN NAT AIRSPACE.
5. PBCS OTS LEVELS 350-390. PBCS TRACKS AS FOLLOWS
TRACK C
TRACK D
TRACK E
END OF PBCS OTS
6. FOR STRATEGIC LATERAL OFFSET AND CONTINGENCY PROCEDURES FOR OPS IN NAT FLOW REFER TO NAT PROGRAMME COORDINATION WEBSITE WWW.PARIS.ICAO.INT.
SLOP SHOULD BE STANDARD PROCEDURE, NOT JUST FOR AVOIDING WX/TURB.
7. 80 PERCENT OF GROSS NAVIGATION ERRORS RESULT FROM POOR COCKPIT PROCEDURES. CONDUCT EFFECTIVE WAYPOINT CHECKS.
8. OPERATORS ARE REMINDED THAT CLEARANCES MAY DIFFER FROM THE FLIGHT PLAN, FLY THE CLEARANCE.
9. FLIGHTS REQUESTING WESTBOUND OCEANIC CLEARANCE VIA ORCA DATALINK SHALL INCLUDE IN RMK/ FIELD THE HIGHEST ACCEPTABLE FLIGHT LEVEL WHICH CAN
BE MAINTAINED AT OAC ENTRY POINT. -

END OF PART TWO OF TWO PARTS)

TR412A #1

KMEM ← LHBP

ETD 05 Aug 07:45z
PJTGC B77L



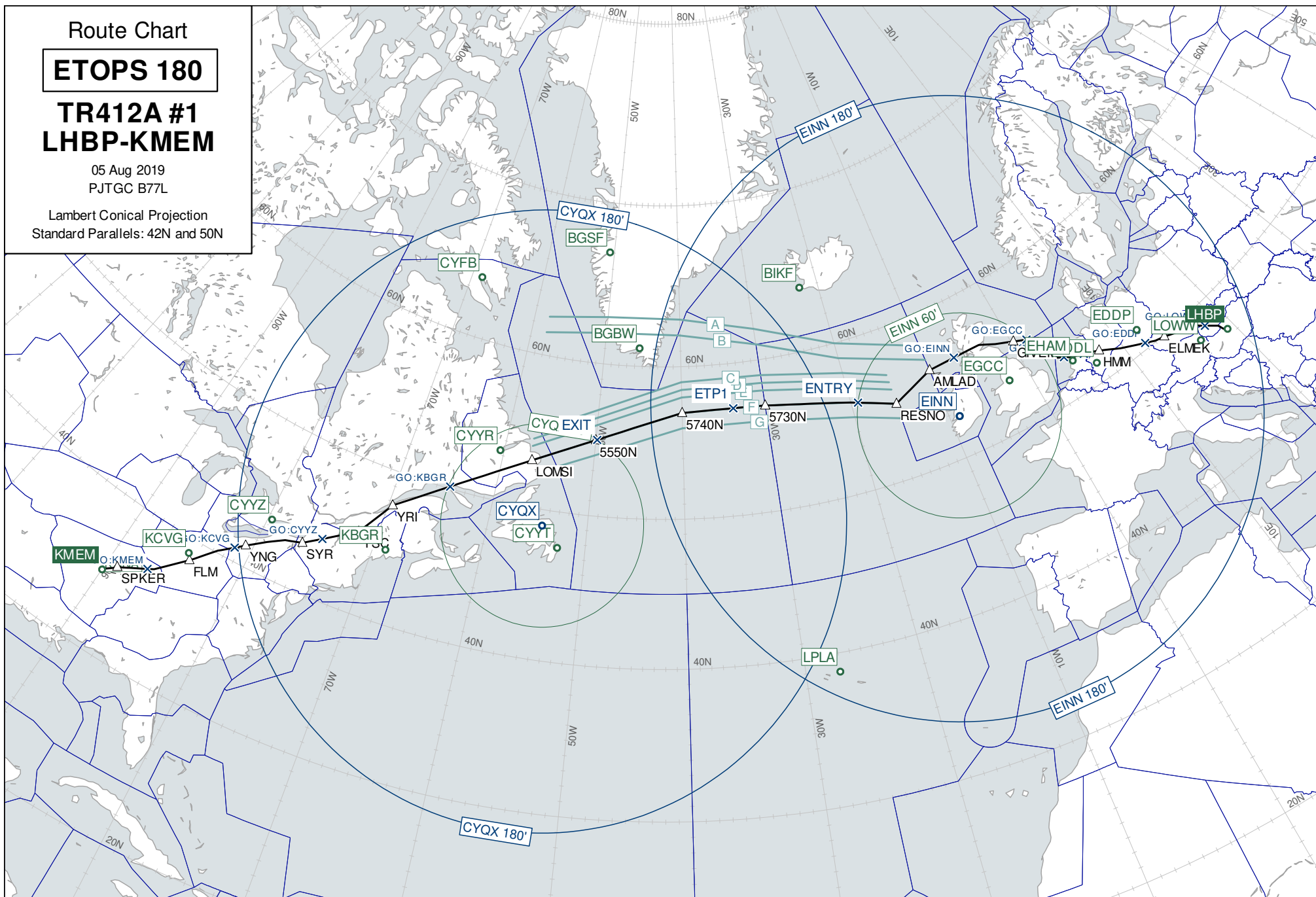
Route Chart

ETOPS 180

TR412A #1
LHBP-KMEM

05 Aug 2019
PJTGC B77L

Lambert Conical Projection
Standard Parallels: 42N and 50N



Wind Chart

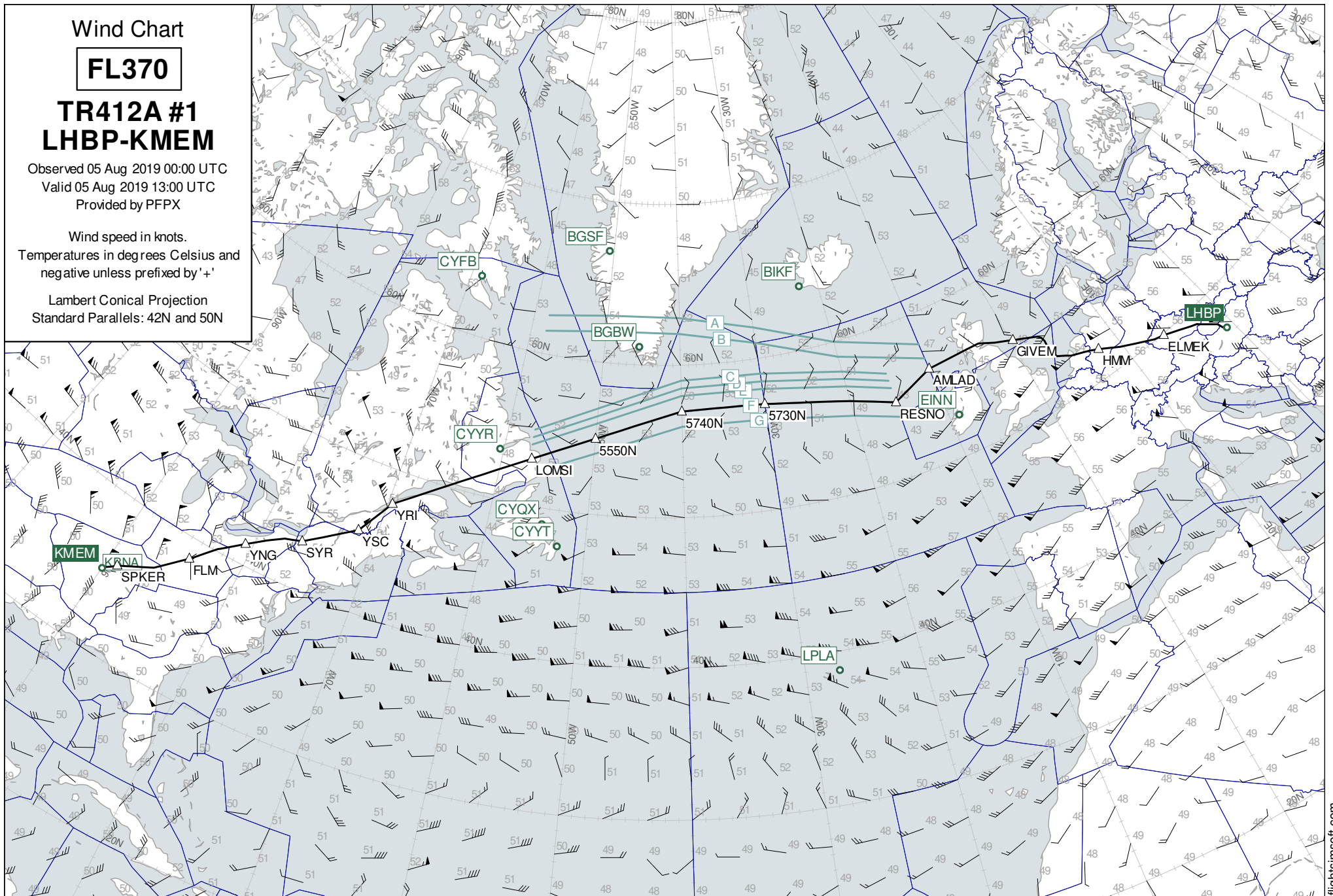
FL370

TR412A #1 LHBP-KMEM

Observed 05 Aug 2019 00:00 UTC
Valid 05 Aug 2019 13:00 UTC
Provided by PFPX

Wind speed in knots.
Temperatures in degrees Celsius and
negative unless prefixed by '+'

Lambert Conical Projection
Standard Parallels: 42N and 50N



Wind Chart

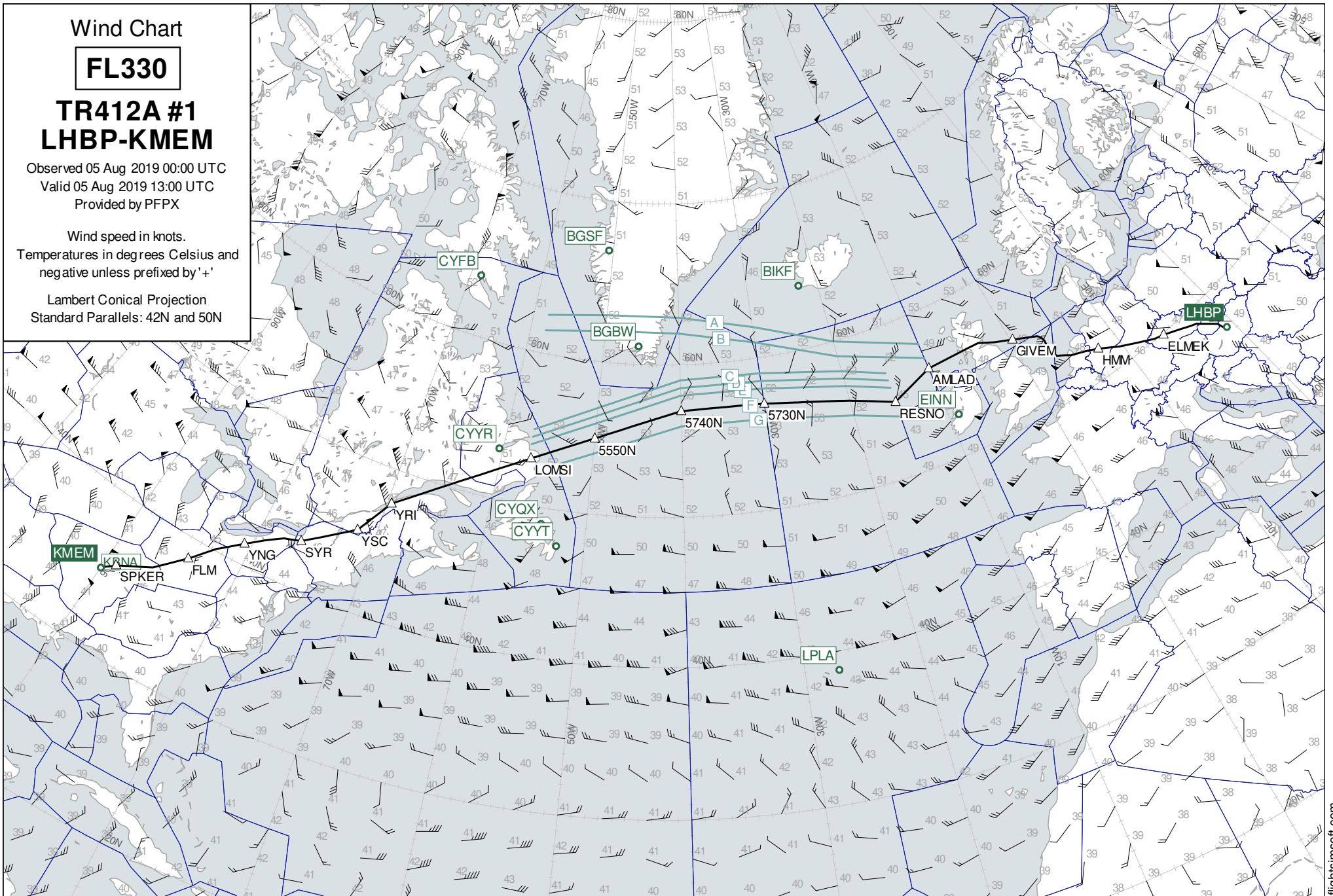
FL330

TR412A #1 LHBP-KMEM

Observed 05 Aug 2019 00:00 UTC
Valid 05 Aug 2019 13:00 UTC
Provided by PFPX

Wind speed in knots.
Temperatures in degrees Celsius and
negative unless prefixed by '+'

Lambert Conical Projection
Standard Parallels: 42N and 50N



Wind Chart

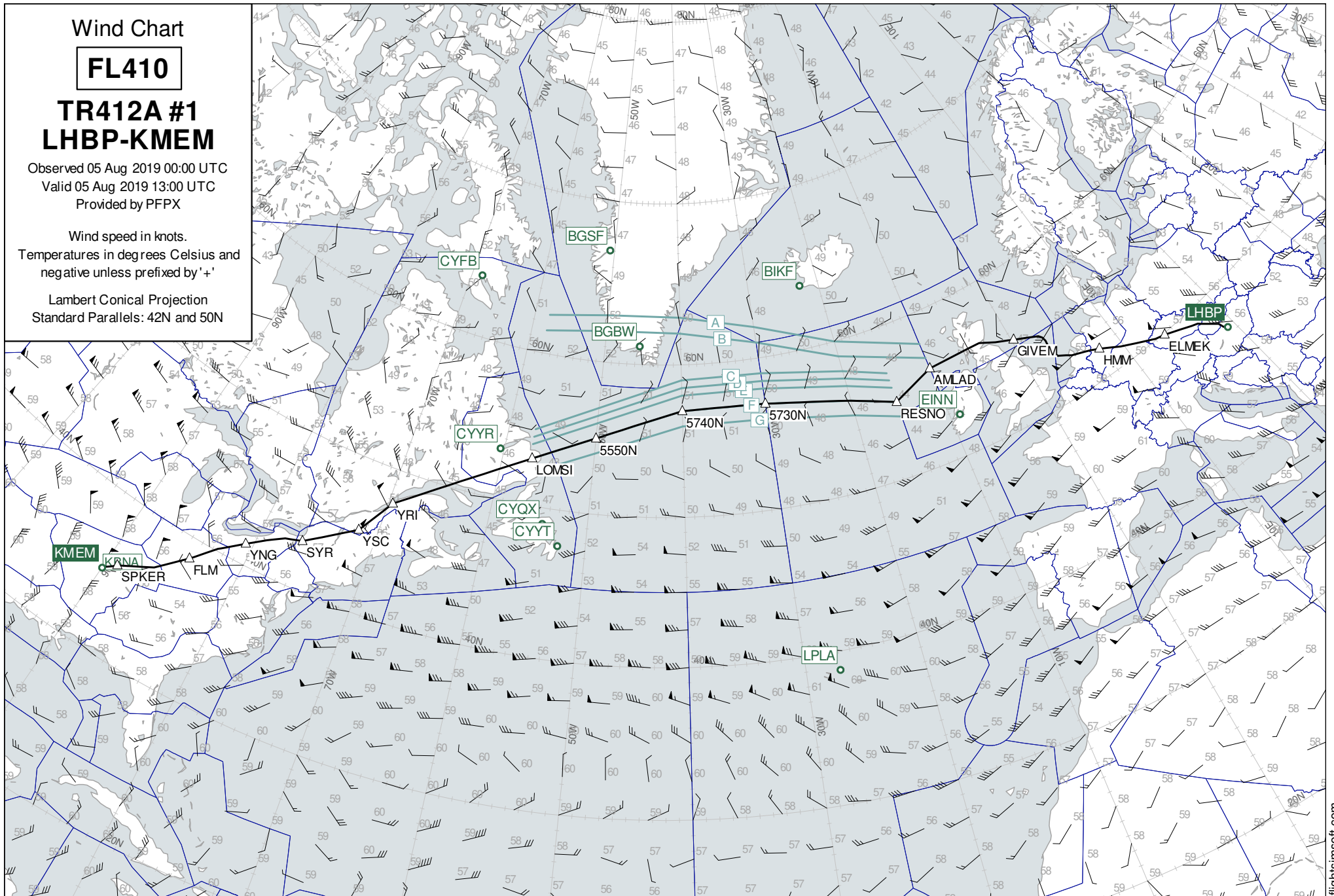
FL410

TR412A #1 LHBP-KMEM

Observed 05 Aug 2019 00:00 UTC
Valid 05 Aug 2019 13:00 UTC
Provided by PFPX

Wind speed in knots.
Temperatures in degrees Celsius and
negative unless prefixed by '+'

Lambert Conical Projection
Standard Parallels: 42N and 50N



Destination Area

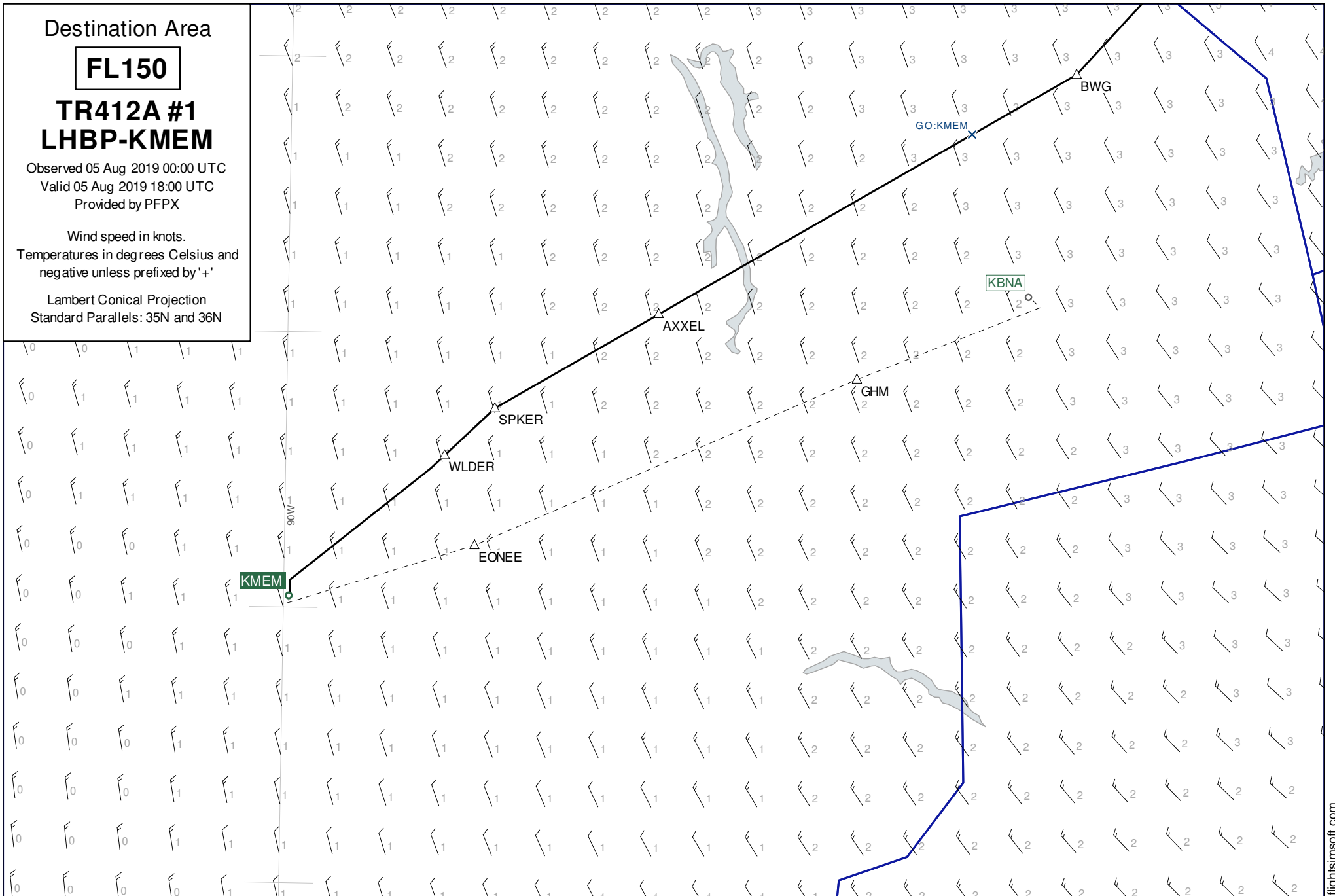
FL150

TR412A #1
LHBP-KMEM

Observed 05 Aug 2019 00:00 UTC
Valid 05 Aug 2019 18:00 UTC
Provided by PFPX

Wind speed in knots.
Temperatures in degrees Celsius and
negative unless prefixed by '+'

Lambert Conical Projection
Standard Parallels: 35N and 36N



Plotting Chart TR412A #1 LHBP-KMEM

05 Aug 2019
PJTGC B77L

Lambert Conical Projection
Standard Parallels: 52N and 54N

